Specimens of electro-deposited vion sheet of a high depree of purity have ben found to exhibit remarkable recrystallisation effects when heated about the ac3 change and cooled below the ars change. In their ways relatively enormous orystals are formed in three seconds after cooling below ars. The coarse crystals are sometimes "equi-asced" and sometimes "radial". Frequently both types occur on the same specimen. There is no reason for their that they are enstitutionally different and they are most probably & vion. These crystallies ation effects are only obtained when the thickness of the vin sheet or strep does not escend a certain critical figure which is between 0.011 and 0.012 of an inch. Once the coarse crystals are formed they cannot be destroyed except letter by mechanical work, or by heating above ale 3 followed by gnerchuig, or hyvery prolonjed heating above ac 3 followed by ordinary

The very heat treatment which produces coarse crystals in the electro:

- deposited vin refine's wrought vin and very mild steel that have
been rendered warsely crystalline by "close-annealing" between 700 and
soo'C. In the other hand annealing at 700° D 500°C. has no effect
in coarsening the structure of the electro-deposited vion which has been
refined by elled mechanical work. In these respects therefore the
behaviour of electro-deposited vion is processed the opposite of that
of wrought vion and mild steel.

HC.H. Carpenter.

DSI

OARPENTER, Sir Henry Cort Harold - English Metallurgist

- B. February 6, 1875. Olifton, Bristol
- D. September 15, 1940. London

Famous for his fundamental research work on Metals and alloys published in his 2 volumes "METALS" and numerous papers in the Proceedings of the Royal ociety of London. He was professor of Metallurgy in the Royal School of Lines, Hon. Member of many scientif. institutions and academies, awarded with the carnegie - the TURNER - the BELSEMER - Gold medals and that of the Institution of Mining.

WEINER

A.M.s. I p. 4to, no place, no date, "ABSTRAGT" dealing with certain remarkable recrystallisation-effects observed in specimens of electro-deposited iron sheets of limited thickness.